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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/596,535	06/15/2006	Andrei V. Belikov	0032.0007US1	7647
20127 7590 05/14/2009 HOUSTON ELISEEVA 4 MILLTIA DRIVE, SUITE 4			EXAMINER	
			NELSON, MATTHEW M	
LEXINGTON, MA 02421			ART UNIT	PAPER NUMBER
			3732	
			MAIL DATE	DELIVERY MODE
			05/14/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/596,535 BELIKOV ET AL. Office Action Summary Examiner Art Unit Matthew M. Nelson 3732 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 10 February 2009. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) See Continuation Sheet is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) _____ is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) See Continuation Sheet are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _______.

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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Continuation of Disposition of Claims: Claims pending in the application are 5-8,12-15,17-20,23-25,29,31,35-37,44-48,62-67.75-85,87.89-97.99,101-103,108,109,111,112 and 116.

Continuation of Disposition of Claims: Claims subject to restriction and/or election requirement are 5-8,12-15,17-20,23-25,29,31,35-37,44-48,62-67,75-85,87,89-97,99,101-103,108,109,111,112 and 116.

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DETAILED ACTION

 Upon further consideration of the claims and specification, a new restriction requirement follows.

Election/Restrictions

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 5-8, 116, drawn to a method for tooth rejuvenation.

Group II, claim(s) 12-15, drawn to a method for tooth rejuvenation.

Group III, claim(s) 17-20, 23-25, 97, drawn to a method for tooth rejuvenation.

Group IV, claim(s) 101-103, drawn to a method.

Group V, claim(s), 29, 31, drawn to a tooth rejuvenating composition.

Group VI, claim(s) 35-37, drawn to a tooth rejuvenating article of manufacture.

Group VII, claim(s) 44, drawn to an apparatus for rejuvenating hard tissue.

Group VIII. claim(s) 45-48, drawn to an apparatus for rejuvenating teeth.

Group IX, claim(s) 99, drawn to an apparatus.

Group X, claim(s) 62-67, 75-85, 87, 89-93, 94-96, drawn to a method for hard tissue modification.

Group XI, claim(s) 108-109, 111-112, drawn to a hand piece with heater.

3. The inventions listed as Groups I-XI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or

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corresponding special technical features for the following reasons: The common feature shared amongst some of the groups is an aqueous solution with edible acids and a given pH. Jensen et al. (US 6,309,625) shows applying a layer of composition comprising an aqueous solution (col. 8, lines 34-47) of one or more edible acids (col. 9, lines 55-67), such as citric acid, wherein the composition has a pH selected from the range of about 0.5 to 5 (col. 3, line 66 - col. 4, line 11), and the composition may not contain peroxide (peroxide shown as optional; col. 2, lines 38-53), and is applied at temperature between 37 and 60 degrees celsius (is applied to the teeth which are near body temperature). These groups therefore lack the same or corresponding special technical features a posteriori.

4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 6. The examiner has required restriction between product and process claims.
 Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise

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require all the limitations of the allowable product claim will be considered for rejoinder.

<u>All</u> claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew M. Nelson whose telephone number is (571) Art Unit: 3732

270-5898. The examiner can normally be reached on Monday-Friday 7:30am-5:00pm

FDT

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Cris Rodriguez can be reached on (571) 272-4964. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MMN/

/Cris L. Rodriguez/

Supervisory Patent Examiner, Art Unit 3732